

VOLUME 3, 1969

CONTENTS

Number 1 — issued May 1969

- MORAITOU-APOSTOLOPOULOU, M., Variability of some morpho-ecological factors in six pelagic copepods from the Aegean Sea. 1
- MAKOTO OMORI, Weight and chemical composition of some important oceanic zooplankton in the North Pacific Ocean. 4
- IBANEZ, F. et S. DALLOT, Etude du cycle annuel des Chaetognathes planctoniques de la rade de Villefranche par la méthode d'analyse des composantes principales. [Study of the annual cycle of planktonic chaetognaths in Villefranche Bay, by the method of principal component analysis]. 11
- PORA, E. A., C. WITTENBERGER, G. SUÁREZ and N. PORTILLA, The resistance of *Crassostrea rhizophorae* to starvation and asphyxia. 18
- WITTENBERGER, C., A. CORO, G. SUÁREZ and N. PORTILLA, Composition and bioelectrical activity of the lateral muscles in *Harengula humeralis*. 24
- LEICHT, R., Der Sauerstoffverbrauch von *Anguilla vulgaris* in seiner Abhängigkeit von Temperaturdifferenzen zwischen Kopfbereich und Rumpf. [The oxygen consumption of *Anguilla vulgaris* in its relation to temperature differences between head region and body]. 28
- RUTMAN, J. and L. FISHELSON, Food composition and feeding behaviour of shallow-water crinoids at Eilat (Red Sea). 46
- WEBB, J. E., On the feeding and behaviour of the larva of *Branchiostoma lanceolatum*. 58
- JANKOWSKY, H. D., H. LAUDIEN und H. PRECHT, Ist eine intrazelluläre Eisbildung bei Tieren tödlich? Versuche mit Polypen der Gattung *Laomedea*. [Is an intracellular ice formation in animals lethal? — Experiments with polyps of the genus *Laomedea*]. 73
- WILLIAMS, E. D. F., A submerged membrane filter apparatus for microbiological sampling. 78

Number 2 — issued June 1969

- PONOMAREVA, L. A., Investigations on some tropical euphausiid species of the Indian Ocean. 81
- BACKUS, R. H., J. E. CRADDOCK, R. L. HAEDRICH and D. L. SHORES, Mesopelagic fishes and thermal fronts in the western Sargasso Sea. 87
- BERTMAR, G. and C. STRÖMBERG, The feeding mechanisms in plankton eaters. I. The epibranchial organs in whitefish. 107
- PEARSE, J. S., Slow developing demersal embryos and larvae of the antarctic sea star *Odontaster validus*. 110
- PANDIAN, T. J., Yolk utilization in the gastropod *Crepidula fornicata*. 117
- CZERPAC, R. and B. CZECHUGA, Studies of the pigments in the shrimp *Crangon crangon* (Crustacea: Malacostraca). 122
- TIFFON, Y., J. BOUILLON et P. COMTE, Etude histologique, histochimique et biochimique des sécrétions ectodermiques des Cérianthes. [Histological, histochemical and biochemical study of the ectoderm secretions of Cerianthi]. 126
- O'CONNELL WHITNEY, J., Absence of sterol synthesis in larvae of the mud crab *Rhithropanopeus harrisi* and of the spider crab *Libinia emarginata*. 134
- SMITH, A. C. and H. F. LITTLE, Liver lesions produced by hydatid-like cysts in an elasmobranch, the electric ray (*Torpedo californica*). 136
- MALESSA, P., Beiträge zur Temperaturadaptation des Aales (*Anguilla vulgaris*). III. Höhe und Verteilung der Aktivität von Succinodehydrogenase und Cytochromoxydase im Seitenmuskel juveniler und adulter Tiere. [Contributions to the temperature adaptation of the eel (*Anguilla vulgaris*). III. Intensity and distribution of the activity of succinate dehydrogenase and cytochrome oxidase in the lateral muscle of juvenile and adult animals]. 143
- VOLKMANN-ROCCO, B. and G. FAVA, Two sibling species of *Tisbe* (Copepoda, Harpacticoida): *Tisbe reluctans* and *T. persimilis* n. sp. Research on their morphology and population dynamics. 159
- APELT, G., Die Symbiose zwischen dem acoelen Turbellar *Convoluta convoluta* und Diatomeen der Gattung *Licmophora*. [The symbiosis between the acoelous turbellarian *Convoluta convoluta* and diatoms of the genus *Licmophora*]. 165
- RADHAKRISHNA, K., Preliminary studies on primary productivity at Payakonda, Gulf of Kandalaksha, White Sea. 188

VOLUME 3, 1969 CONTENTS (continued)

Number 3 — issued July 1969

- PETIPA, T. S. and N. P. MAKAROVA, Dependence of phytoplankton production on rhythm and rate of elimination. 191
- IGNATIADIS, L., Annual cycle, species diversity and succession of phytoplankton in lower Saronikos Bay, Aegean Sea. 196
- ZEITZSCHEL, B., Primary productivity in the Gulf of California. 201
- ROSENTHAL, H., Untersuchungen über das Beutefangverhalten bei Larven des Herings *Clupea harengus*. [Investigations on the prey catching behaviour of larvae of the herring *Clupea harengus*]. 208
- JOB, S. V., The respiratory metabolism of *Tilapia mossambica* (Teleostei). II. The effect of size, temperature, salinity and partial pressure of oxygen. 222
- PERES, J. M. et J. PICARD, Réflexions sur la structure trophique des édifices récifaux. [Considerations on the trophic structure of reef constructions]. 227
- BLANC, F., M. LEVEAU et K. H. SZEKIÉLDA, Effets eutrophiques au débouché d'un grand fleuve (Grand Rhône). [Eutrophic effects at the mouth of a great river (Grand Rhône)]. 233
- DAUMAS, R. et M. FIALA, Evaluation de la matière organique vivante dans les eaux marines par la mesure de l'adénosine triphosphate. [Evaluation of the living organic material in marine waters by measuring adenosine triphosphate]. 243
- BERGQUIST, P. R. and W. D. HARTMAN, Free amino acid patterns and the classification of the Demospongiae. 247
- ALLEN, J. A., Observations on size composition and breeding of Northumberland populations of *Zirphaea crispata* (Pholadidae: Bivalvia). 269
- BRUSLÉ, J., Sexualité d'*Asterina gibbosa*, asteride hermaphrodite, des côtes de Marseille. [Sexuality in *Asterina gibbosa*, hermaphroditic asterid from the coasts of Marseille]. 276
- LÜNING, K., Standing crop and leaf area index of the sublittoral *Laminaria* species near Helgoland. 282

Number 4 — issued August 1969

- SOURNIA, A., Cycle annuel du phytoplancton et de la production primaire dans les mers tropicales. [Annual cycle of phytoplankton and of primary production in the tropical seas]. 287
- RADIL-WEISS, T. and N. KOVAČEVIČ, Some biophysical parameters of the skin of the electric fish *Torpedo marmorata*. 304
- WERDING, B., Morphologie, Entwicklung und Ökologie digener Trematoden-Larven der Strandschnecke *Littorina littorea*. [Morphology, development and ecology of digenous trematode larvae of the littoral snail *Littorina littorea*]. 306
- BERLAND, B. R. and S. Y. MAESTRINI, Study of bacteria associated with marine algae in culture. II. Action of antibiotic substances. 334
- VON OERTZEN, J. A., und V. MOTZFELD, Eine Apparatur zur kontinuierlichen Respirationsmessung an marinen Organismen. [An apparatus for continuous respiration measurement in marine organisms]. 336
- CHAPMAN, G. and A. C. RAE, Excretion of photosynthate by a benthic diatom. 341
- REISH, D. J. and G. C. STEPHENS, Uptake of organic material by aquatic invertebrates. V. The influence of age on the uptake of glycine-C¹⁴ by the polychaete *Neanthes arenaceodentata*. 352

